



ARNG DL Orientation

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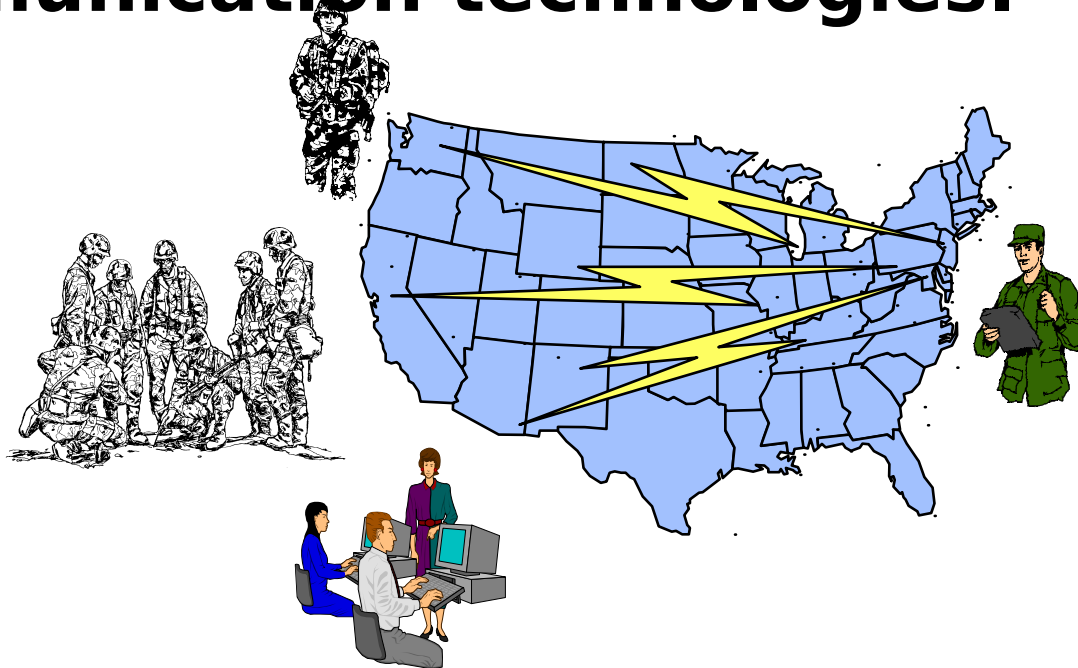
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What Is Distributed Learning?



The delivery of learning, training, and education using information and communication technologies.



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Distributed Learning Vision



“Technology is going to move whether you or I care about it or not. So let’s figure out how to grab some of those features and put them to work.

The future for you and I in the training world, is get on with this initiative and figure out how we best apply it to enhancing readiness.”

***---- MG Roger Schultz
Director, AR
14 April 199***

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Distributed Learning is a System!



Objective



**Improved
Readiness**

Four Components of DL

- 1. Network and Classrooms (DTTF)
- 2. DL Courseware
- 3. Cadre Training
- 4. Support Services

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Lessons Learned



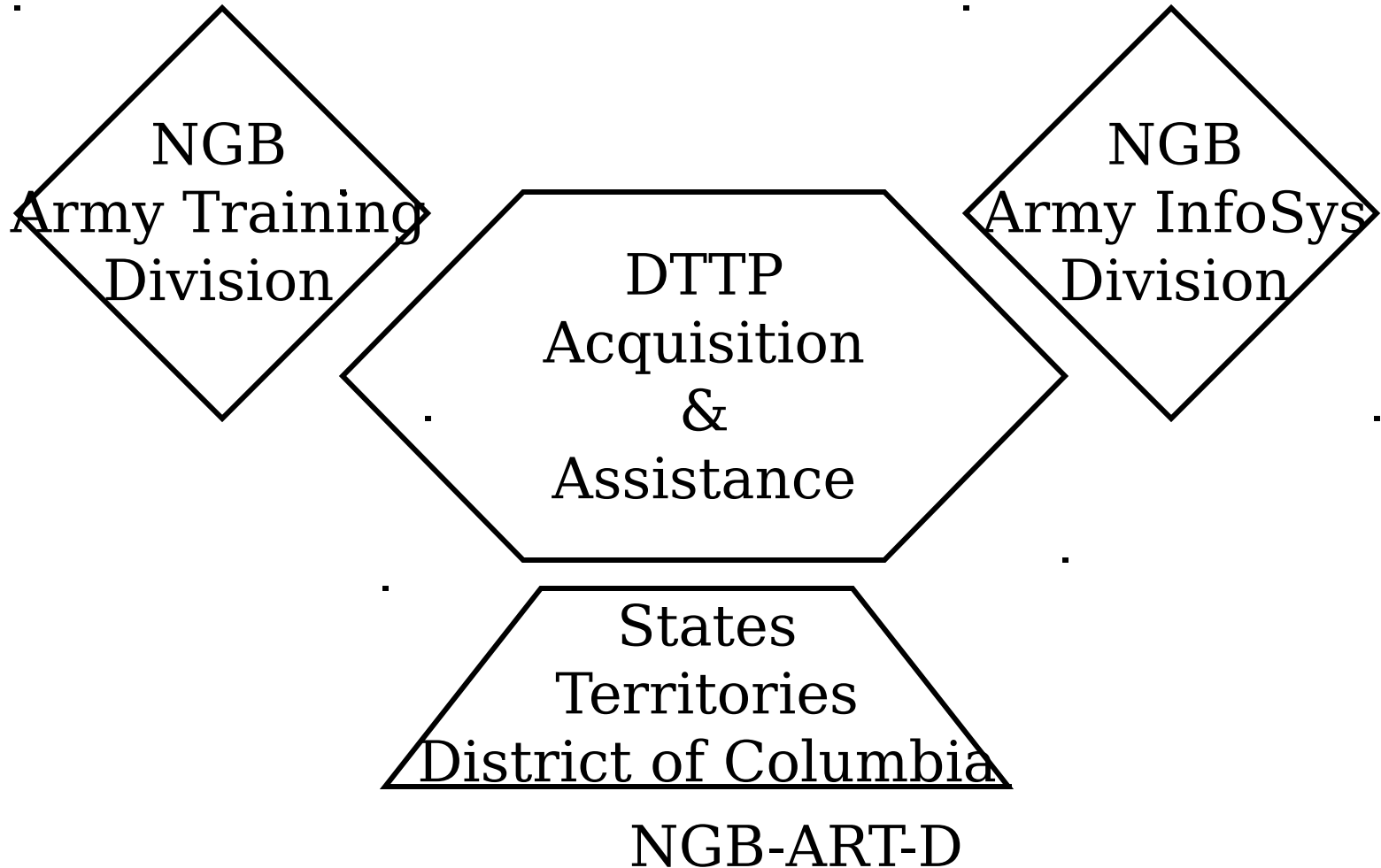
- **Implementation requires a champion**
- **Collaboration - key to implementation and conserving scarce resources**
- **DL is not for all tasks**
- **Learn DL by doing DL**



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Major Players in ARNG DL





Major Players in ARNG DL



Combat Developer for Military Training S

Define Training Needs for ARNG (MNS)

Define Operational Requirements for Training (O

Define Functional Requirements for Training (FR

Prioritize Functional Enhancements to System

Monitor Readiness Metrics and Provide Feedback

Modify MNS, ORD, FRD & Other Documents as R

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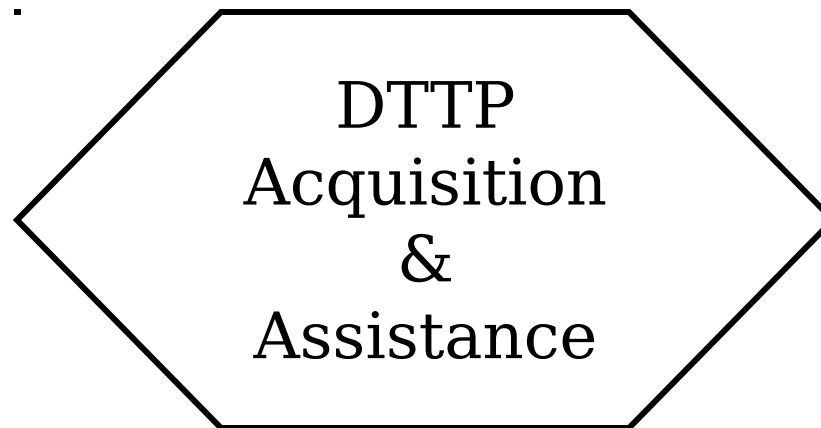
Major Players in ARNG DL



Systems Acquisition & Assistance Project for ARNG DL

Executes the Acquisition Process in Accordance with Requirement

Provides Assistance (Resources, NET, Business Practices, etc) to S



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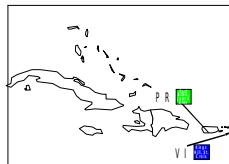
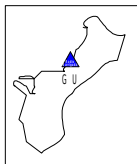
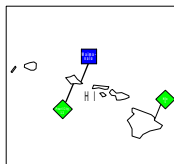
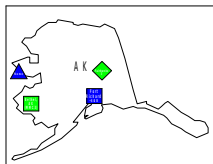
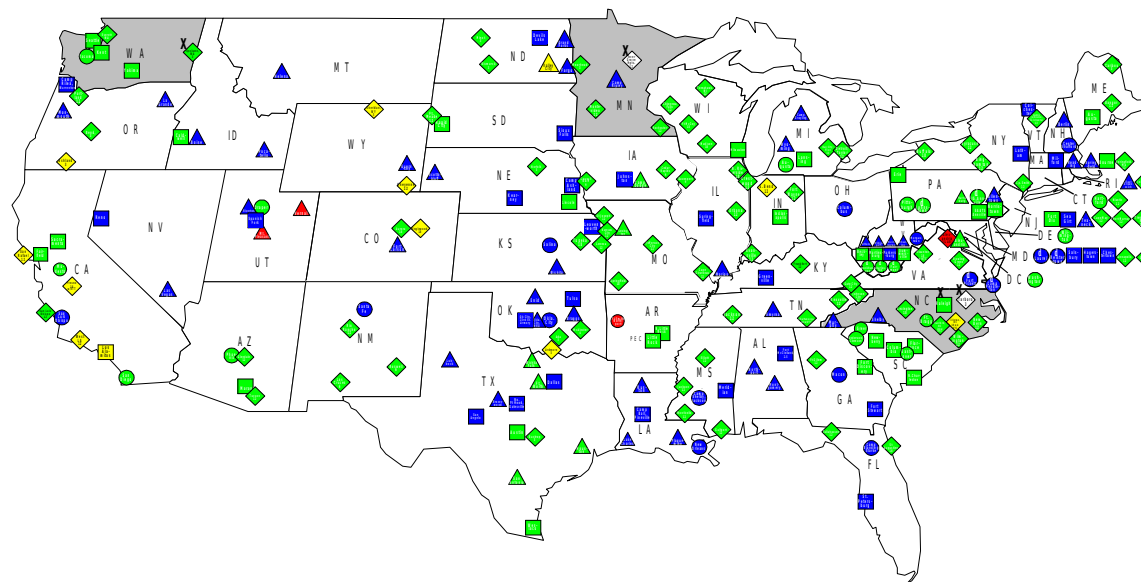
ARNG DL Classrooms (DTTP)

State DL Networks & TADLP DTFs not shown on map.



DTTP CLASSROOM INSTALLATIONS

June 12, 2001



edu gfg: dlct-arng-h1000j4030-kg/weekly map-06/12/01

TOTAL CLASSROOM INSTALLATIONS: 245*

Status of Site:

- Classrooms complete (including IIS) (143)
- Classroom complete without IIS (84)
- Classrooms signed off with exceptions (13)
- Classroom installations on hold (3)
- Classroom installations started/in progress (2)
- Regions/sites with changes in past week

Type of Site	#
MM S ¹	91
DM M C ²	35
MM C ³	66
MTC ⁴	53
Total	245*

* Total does not include 61 Single Trainer Classrooms (STCs) or MMS lab at Alexandria, VA

¹ Multi-Media Scalable; ² Dual Multi-Media Classroom; total includes nine demonstration classrooms (marked "d") in Maryland, Pennsylvania, Virginia, District of Columbia.

³ Multi-Media Classroom; ⁴ Medium Trainer Classroom

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Major Players in ARNG DL



Provider of Longhaul Telecom Infrastructure

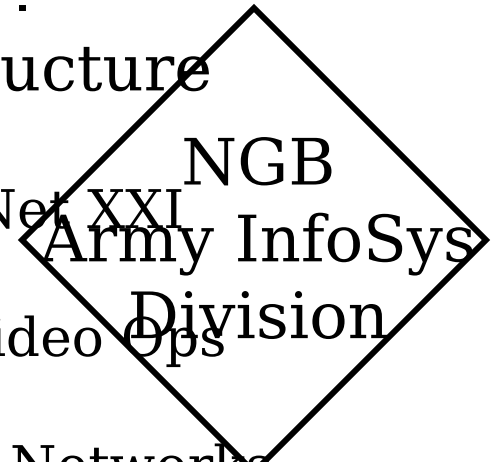
Provides Backbone for DL Network - GuardNet XXI

Provides Management/Hosting of Network Video Ops

Provides Inter-Connectivity to Other Military Networks

Executes Telecom Enhancements IAW Requirements Documents

Manages WAN Operation and Helpdesk Support



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Major Players in ARNG DL



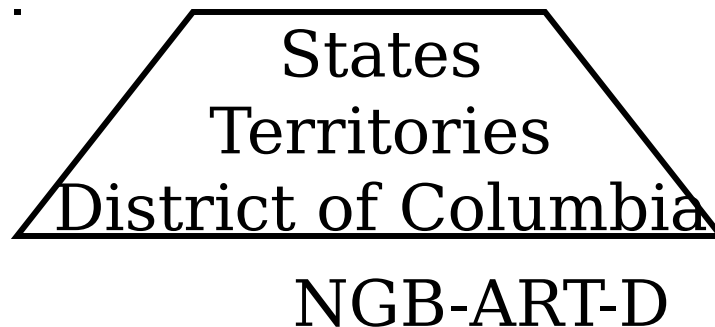
Users & Executors of DL Applications (54 Customer S

Ultimately Determine Operational & Functional Requirements

Execute Training & Training Management by Using the System

Manage DL Site Operations, Planning, & Regulatory Document

Provide Feedback to Drive Enhancements & Improve Training





ARNG DL Acquisition Process



Congressional Language in 1995 established a DL Network Demonstration Project to Connect all 54 States/Territories

Continues to be Recognized as an Integral Partner in A

TADLP Follows a Traditional “Weapons System” Acquisition Approach as a typical system with Blocks & Milestones

DTTP Follows a Very Flexible Non-Traditional Approach

A Majority of DTTP Funding is from Congressional Appropriations

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ARNG DL Acquisition Process



Funding is Based Upon Training Requirements

Training Requirements are Translated Into Program Costs

It is Vital That All Costs are Captured (Equipment, Personnel, Maintenance, Infrastructure, Services, Content, etc) to
Identify Required Funding for the Program

HQDA Determines Validated, Critical, & Funded Costs

Congressional Interest Can Increase Funded Costs

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ARNG DL Acquisition Process



DTTP Executes Classroom Acquisition Program Based
Congressional Intent
Acquisition Documents (MNS, ORD, FRD)
Prioritization by RCB and Functional Proponents
Coordination with TADLP
Technical & Availability Modifications vetted by
Chief, NGB Directives
Available Funding

NGB-ART Executes Courseware Acquisition Program
Readiness Requirements of ARNG
DLAC and Chief, NGB-ART Training Priorities
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Military Training Overview



- ◆ DL Training Requirements (Content)
- ◆ DL Functional Requirements (Equipment)
- ◆ DL Courseware Development
- ◆ DL Legacy Courseware
- ◆ VTT & Satellite Courses



DL Training Requirements



Where do ARNG DL Training Requirements Come From

DMOSQ / ASI / NCOES / OPD Course Prioritization:

- Number of ARNG Soldiers Awaiting Training Seats in Country
- Projected Future Requirements for Seats Based on AFAM
- Inability of TASS System to Meet Training Needs with Res
- Applicability of Content to DL Modalities
- Input from the Field (DLAC)

RC Functional Course Prioritization:

- Functional FOA Internal Prioritization
- Chief, NGB-ART Prioritization
- Directives from DARNG & CNGB

Other Training Requirements:

- NET/DET, Sustainment, Deployment, Self-Development

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DL Functional Requirements



What is the Functional Requirements Process?

Functional Requirements for DL System Flow Up from Users:
Military Training - **DLAC**, POTO/DCSOPS, RTI, MTOE/T
C2 Usage - POMSAC, POTO/DCSOPS, POMSO
Shared Usage - Site Managers, DL POC

Functional Requirements are Collected and Prioritized by Func
NGB-ART, NGB-ARO, DTTP

Functional Requirements are Integrated into the FRD and Pres

Approved and Prioritized Requirements are Tasked to the PM D

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DL Courseware Development



Courseware (Content) is the “Long Pole in the Tent” for

TRADOC Manages Content Development Through TADLP

TADLP uses ATSC Multimedia Contracting to Manage MMXXI

Four Prime Contractors and 30+ Subcontractors

Proponent Schools can gain Exception from MMXXI Requirements

Using MIMIC as an Authorized GOCO

Partnering with Other Development Efforts - i.e. WAARNG

Developing “In House” Using School Resources

Development is not a Fast Process (2 years avg) but is Gaining Eff

Changes in Technology, Process, & Policy are Helping

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Legacy Courseware



What About All of that “Old Stuff” on CD-ROM & Floppies

TRADOC is Distributing a “Basic Load” of CD-ROMs to DTFs

DTTP is Converting the “Basic Load” Plus Many Others to a Net-Based

ATSC is Providing a Testing Process & Facility to Certify Legacy Courseware

DoD’s ADL Initiative is Looking at Methods of Rapid Web Conversion

Much of the Content is Still Relevant & Useable

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VTT & Satellite Courses



What Courses are Taught or can be Taught Using VTT or

NGB-ART Position is that VTT and Satellite are an Extension of Res

Satellite is Best Suited for Lecture Type Classes and Informational
Can be Combined with Telephone Conferencing & Web for I

Most Courses that are Taught in Residence can also be Taught via
May Need Equipment at Remote Sites
Requires Additional Planning & Preparation by Instructor

Many of the DL Phases to be Taught by TASS Schoolhouses in FY0

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CAPABILITIES



◆ CURRENT

- ♠ VTC via ATM
- ♠ VTC via ISDN
- ♠ WBT via Internet
- ♠ CBT via CD-ROM
- ♠ VCR
- ♠ FAX
- ♠ Satellite Bridging

◆ NEAR FUTURE

- ♠ VTC via IP
- ♠ Commercial Courses
- ♠ CBT via Guardnet
- ♠ Direct Satellite
- ♠ Distributed Simulations
- ♠ Learning Portal



CAPABILITIES for FY02



- ◆ Small Dish Digital Satellite
 - ♠ Compatible with USAF WarriorNet
 - ♠ Approx 80 downlinks & 3 uplink studios
 - ♠ Some mobile tests & two-way test in AK
- ◆ MCU Upgrades
 - ♠ More capacity nationwide for ATM/ISDN
 - ♠ Will allow intrastate IP based VTC
 - ♠ Can bridge IP with ATM and ISDN



COURSEWARE



- ◆ Functional Courseware Development Ctrs.
 - ♠ 4 NGB-Sponsored Development Centers
 - ♣ MIMIC, PEC, WAATS, T3BL
 - ♠ Other Congressionally Funded Development
 - ♣ WA-ARNG, CIVIC, ALERT, VT-ARNG
 - ♠ All receive guidance, priorities, and coordination through NGB
 - ♠ Coordinate with other services/components through ADL

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COURSEWARE



- ◆ Courseware Under Development
 - ♠ MIMIC: O/C Standardization, 19K Pre-Engagement Training, ATMS, DTS
 - ♠ PEC: Unit Supply Course, Attrition Management, Unit Pre-Command Course
 - ♠ WAATS: AeroScout Course, 93P
 - ♠ T3BL: Primary Staff Training Courses



DL Support & Cadre Training



◆ CURRENT

- ♠ New Equipment Trng
- ♠ DL Equip Operator Crs
- ♠ DL ITC Course
- ♠ DTTP Help Desk
- ♠ SASS Website
- ♠ ARNG DL Website
- ♠ Semi-Annual Wrkshp

◆ NEAR FUTURE

- ♠ Joint ADL ITC Course
- ♠ DL Orientation Videos
- ♠ DL Site Managers Crs
- ♠ DLAC Organization



PARTNERSHIPS & COLLABORATION



- ◆ Permanent Presence at ADL Co-Lab
 - ♠ Working SCORM, LMS, Repository, and Interoperability Issues
- ◆ Courseware Development Collaboration
 - ♠ PEC/TEC/ARRTC
 - ♠ NGB-ART/Armor School/STRICOM

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DL Success Stories



- ◆ 67T DL Course has been taught in collaboration between USAALS/EAATS
- ◆ 13M & 13P DL has been taught to fix large reclassification requirements due to ADRS
- ◆ 97 B, 97 E common subjects & 97L reclassification are being taught via DL
- ◆ PEC is teaching Unit Clerk & others via DL
- ◆ Proponent Schools agreeing to pilot more DL



Challenges to Scheduling



- ◆ Each State/Territory is different
 - ♠ 54 different management plans for classrooms
 - ♣ DSCOPS/DCSIM - State Employee/Vendor/Soldier
 - ♠ 54 different owners, 3 distinct missions
- ◆ All Classrooms (will) have an IIS system
 - ♠ Enables scheduling of DTTP Classrooms
 - ♠ Enables metering/billing for resources
 - ♣ Community Shared Use
 - ♣ Non-Guard Military Users (federal portion only/CCR)

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ATTRRS Scheduling of DTF



- ◆ TADLP DTF scheduling will happen earlier
 - ♠ DTFs have single primary mission & contractor
 - ♠ ATTRRS directly interfaces with DTF scheduling
- ◆ DTTP classrooms will take longer to integrate
 - ♠ Need to address needs of all 3 primary missions
 - ♣ Training, Command/Control, Community Shared Use
 - ♠ Need to interface through IIS to schedule classrooms
 - ♠ Will require a “human in the loop” during near-term



Interim Scheduling for DL

- ◆ ATRRS will list all operational classrooms
 - ♠ DL POC and site manager will be listed for each
- ◆ TASS school in coordination with quota managers determine DL site locations required
- ◆ TASS school contacts DL POC or Site Manager to request classroom reservation
- ◆ Site manager sends verification of classroom reservation to TASS school electronically



Contingency Issues



- ◆ What happens if a classroom is unavailable?
 - ♠ Try to schedule next closest classroom thru DL POC
 - ♠ Call NGB-ART-D to negotiate with other user
- ◆ What happens if we have a “pop-up” course?
 - ♠ Call NGB-ART-D immediately
 - ♠ Be prepared to give us the following info:
 - ♣ Cause of pop-up
 - ♣ Number of soldiers to be trained
 - ♣ Location of soldier units/population & originating school

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NGB-ART-D POCs



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Courseware Redesign Priorities ARNG -vs- TADLP list

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